

## SEQUENCE LISTING

<110> Qiu, Yongchang  
Wang, Jack  
Hewick, Rodney

<120> ACID-LABILE ISOTOPE-CODED EXTRACTANT (ALICE) AND  
ITS USE IN QUANTITATIVE MASS SPECTROMETRIC ANALYSIS  
OF PROTEIN MIXTURES

<130> GI5412AUSA

<150> 60/242643  
<151> 2000-10-23

<160> 16

<170> PatentIn version 3.1

<210> 1  
<211> 604  
<212> PRT  
<213> Bovine Serum Albumin

<400> 1

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Thr Tyr Ser Arg Gly Val Phe Arg Arg Asp Thr His Lys Ser Glu Ile
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Ala His Arg Phe Lys Asp Leu Gly Glu Glu His Phe Lys Gly Leu Val
 35          40          45

Leu Ile Ala Phe Ser Gln Tyr Leu Gln Gln Cys Pro Phe Asp Glu His
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Val Lys Leu Val Asn Glu Leu Thr Glu Phe Ala Lys Thr Cys Val Ala
 65          70          75          80

Asp Glu Ser His Ala Gly Cys Glu Lys Ser Leu His Thr Leu Phe Gly
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Asp Glu Leu Cys Lys Val Ala Ser Leu Arg Glu Thr Tyr Gly Asp Met
100          105          110

Ala Asp Cys Cys Glu Lys Gln Glu Pro Glu Arg Asn Glu Cys Phe Leu
115          120          125

Ser His Lys Asp Asp Ser Pro Asp Leu Pro Lys Leu Lys Pro Asp Pro
130          135          140

Asn Thr Leu Cys Asp Glu Phe Lys Ala Asp Glu Lys Lys Phe Trp Gly
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Lys Tyr Leu Tyr Glu Ile Ala Arg Arg His Pro Tyr Phe Tyr Ala Pro
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Glu Leu Leu Tyr Tyr Ala Asn Lys Tyr Asn Gly Val Phe Gln Glu Cys
180          185          190

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Cys Gln Ala Glu Asp Lys Gly Ala Cys Leu Leu Pro Lys Ile Glu Thr  
 195 200 205  
 Met Arg Glu Lys Val Leu Thr Ser Ser Ala Arg Gln Arg Leu Arg Cys  
 210 215 220  
 Ala Ser Ile Gln Lys Phe Gly Glu Arg Ala Leu Lys Ala Trp Ser Val  
 225 230 235 240  
 Ala Arg Leu Ser Gln Lys Phe Pro Lys Ala Glu Phe Val Glu Val Thr  
 245 250 255  
 Lys Leu Val Thr Asp Leu Thr Lys Val His Lys Glu Cys Cys His Gly  
 260 265 270  
 Asp Leu Leu Glu Cys Ala Asp Asp Arg Ala Asp Leu Ala Lys Tyr Ile  
 275 280 285  
 Cys Lys Asn Gln Asp Thr Ile Ser Ser Lys Leu Lys Glu Cys Cys Asp  
 290 295 300  
 Lys Pro Leu Leu Glu Lys Ser His Cys Ile Ala Glu Val Glu Lys Asp  
 305 310 315 320  
 Ala Ile Pro Glu Asn Leu Pro Pro Leu Thr Ala Asp Phe Ala Glu Asp  
 325 330 335  
 Lys Val Cys Lys Asn Tyr Gln Glu Ala Lys Asp Ala Phe Leu Gly Ser  
 340 345 350  
 Phe Leu Tyr Glu Tyr Ser Arg Arg His Pro Glu Tyr Ala Val Ser Val  
 355 360 365  
 Leu Leu Arg Leu Ala Lys Glu Tyr Glu Ala Thr Leu Glu Glu Cys Cys  
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 Ala Lys Asp Asp Pro His Ala Cys Tyr Ser Thr Val Phe Asp Lys Leu  
 385 390 395 400  
 Lys His Leu Val Asp Glu Pro Gln Asn Leu Ile Asp Gln Asn Cys Asp  
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 Gln Phe Glu Lys Leu Gly Glu Tyr Gly Phe Gln Asn Ala Leu Ile Val  
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 Arg Tyr Thr Arg Lys Val Pro Gln Val Ser Thr Pro Thr Leu Val Glu  
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 Val Ser Arg Ser Leu Gly Lys Val Gly Thr Arg Cys Cys Thr Gly Pro  
 450 455 460  
 Glu Ser Glu Arg Met Pro Cys Thr Glu Asp Tyr Leu Ser Ile Leu Asn  
 465 470 475 480  
 Arg Leu Cys Val His Glu Lys Thr Pro Val Ser Glu Lys Val Thr Lys  
 485 490 495

Cys Cys Thr Glu Ser Leu Val Asn Arg Arg Pro Cys Phe Ser Ala Leu  
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Thr Asp Glu Thr Tyr Val Pro Lys Ala Phe Asp Glu Lys Leu Phe Thr  
515 520 525

Phe His Ala Asp Ile Cys Thr Leu Pro Asp Thr Glu Lys Gln Ile Lys  
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Lys Gln Thr Ala Leu Val Glu Leu Leu Lys His Lys Pro Lys Ala Thr  
545 550 555 560

Glu Glu Gln Leu Lys Thr Val Met Glu Asn Phe Val Ala Phe Val Asp  
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Ala Ser Val Asn Cys Ala Lys  
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<213> Peptide from beta-lactoglobulin

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<212> PRT

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<211> 17

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<212> PRT

<213> Protein from lysozyme

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<210> 13  
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<400> 13

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Gln Ala Val Cys Ser Gln Lys Asn  
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<210> 14  
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<210> 15  
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<400> 15

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<210> 16  
 <211> 18  
 <212> PRT  
 <213> Peptide from trypsinogen

<400> 16

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Lys Leu